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Department Mon. Bioc.	
Subject 10/20194 - 02	2/02/95
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Ruben EXHIBIT #91

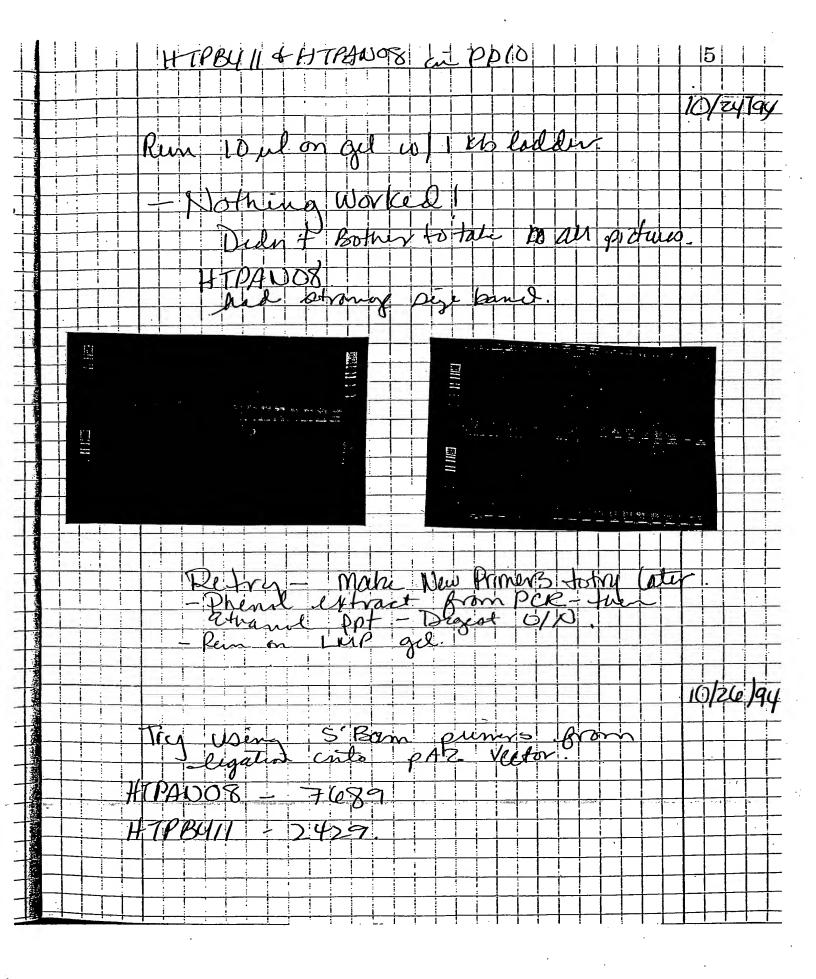
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Ruben EXHIBIT 2091 Ruben v. Wiley et al. Interference No. 105,077 RX 2091

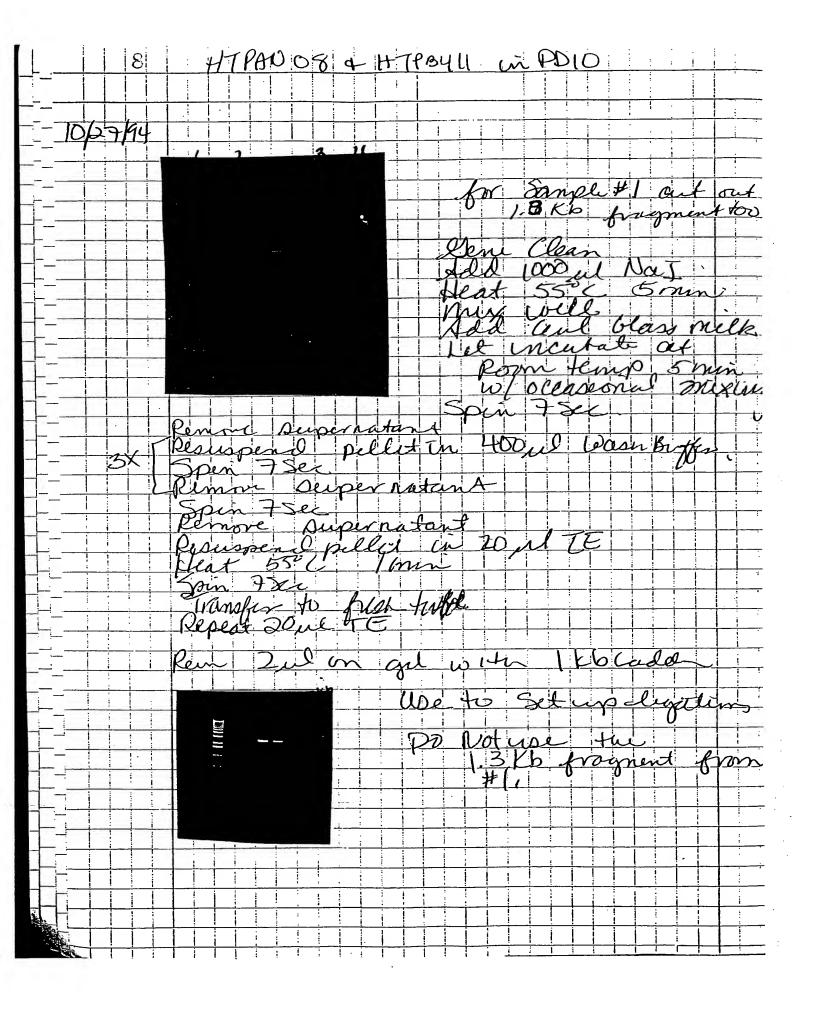
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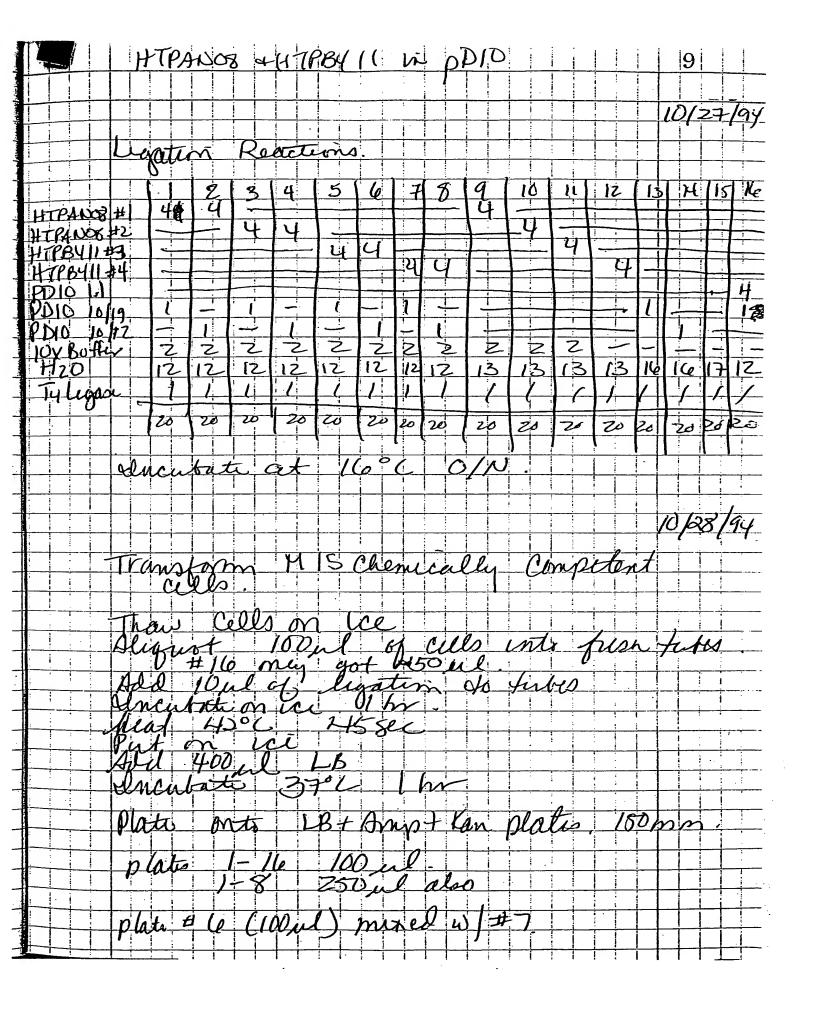


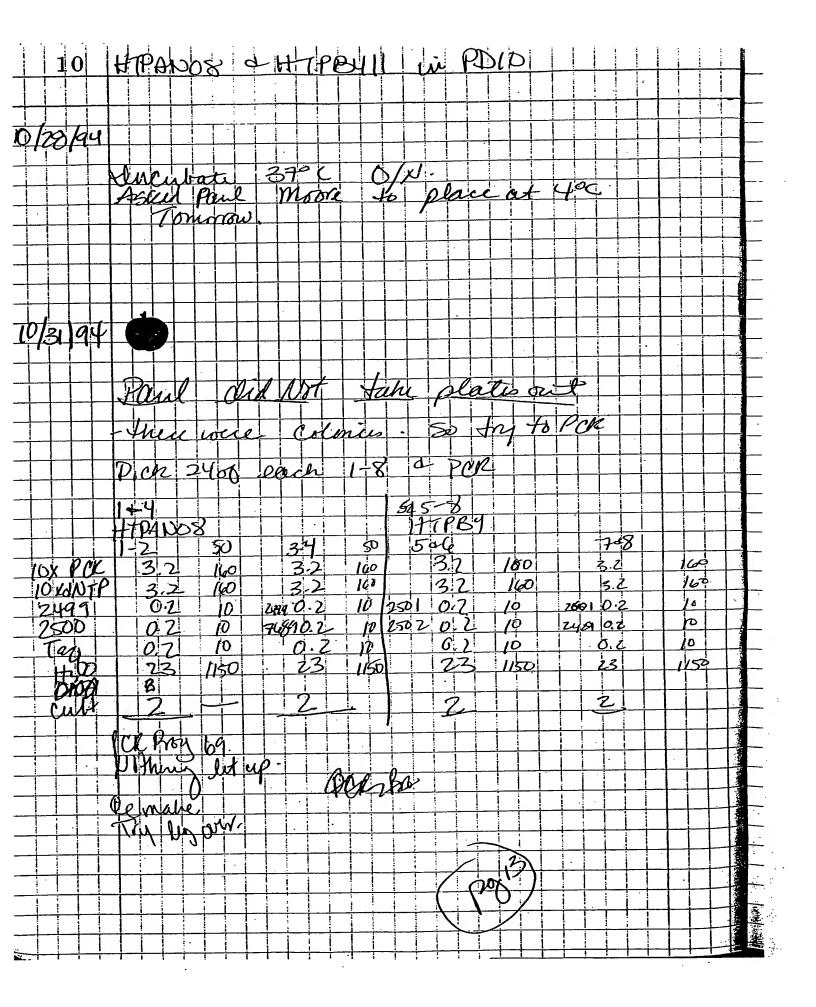
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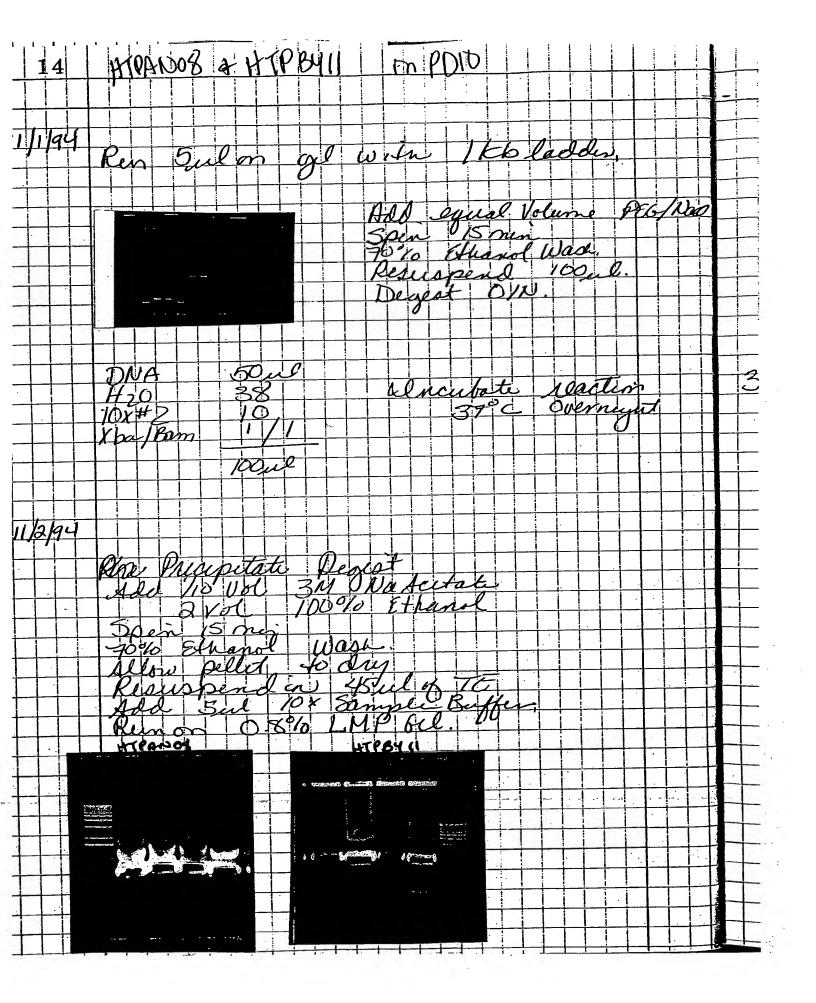
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	Buffer	·
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4168008 + 41884 11 12 BOTO 11494 get with the Readin on up again Talked w/ Steve yemah DOTH HIPE 5 Bam 11/8/94 BIXIDA HTPBYI Oligo Redd 11/10/94 Recod HTPBYY HTPANOS 11194 3' XPD- NOW HTPANUS? 11 12 94 Wild Oligos Reactions WIMW PIMMS

PANOS /HPBY/ In PD/O 11/19/94 HTPBY11S15 0,6 60.7 5' Barn New 10 IOX ANTP DOYGNIE 10 HD modified #69 MH 5min 95°C 1/2 min PFG- Mall IOX # V

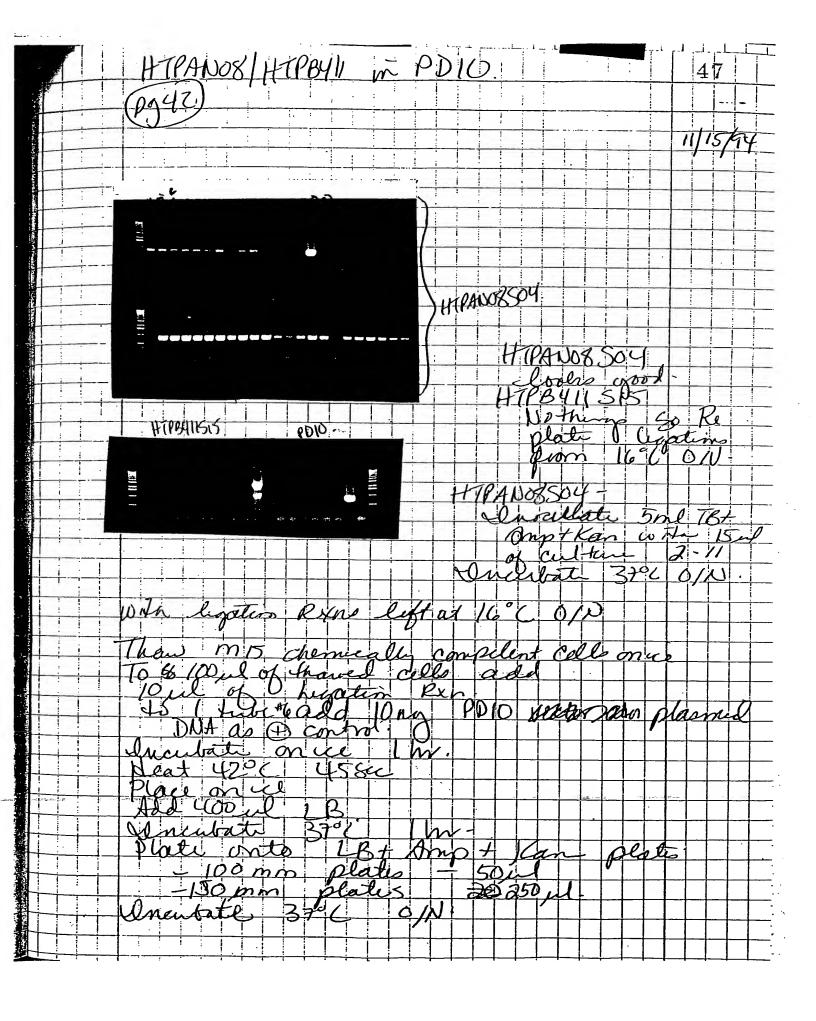
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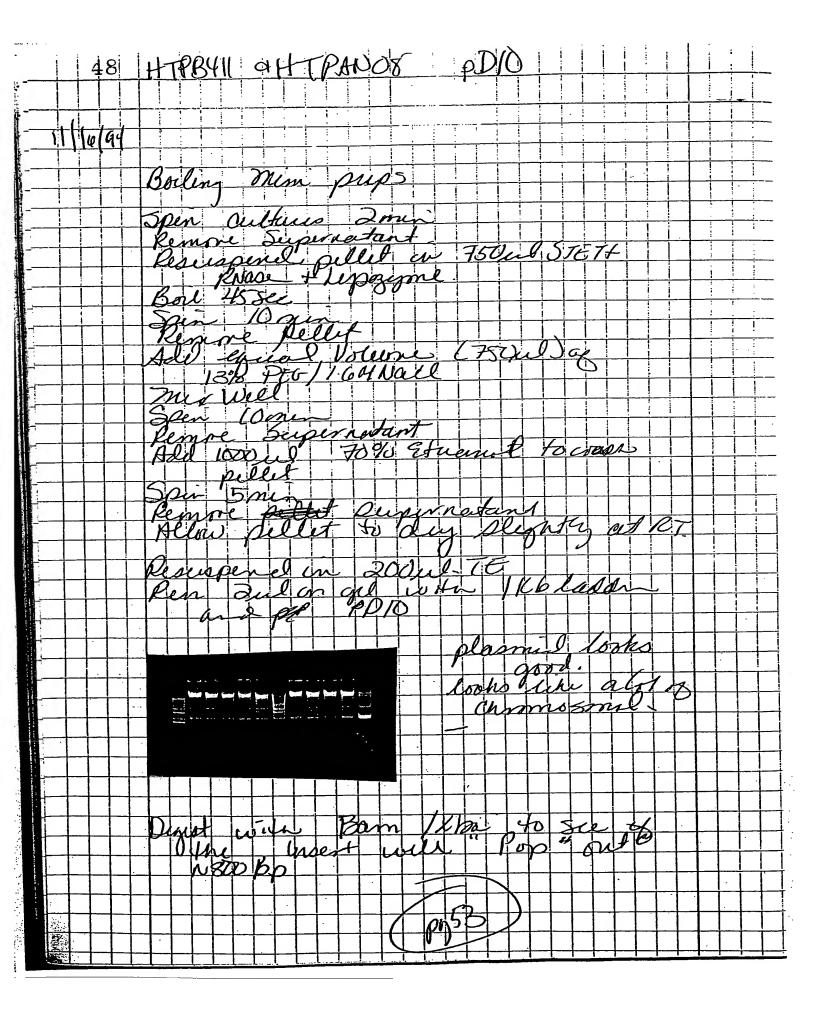
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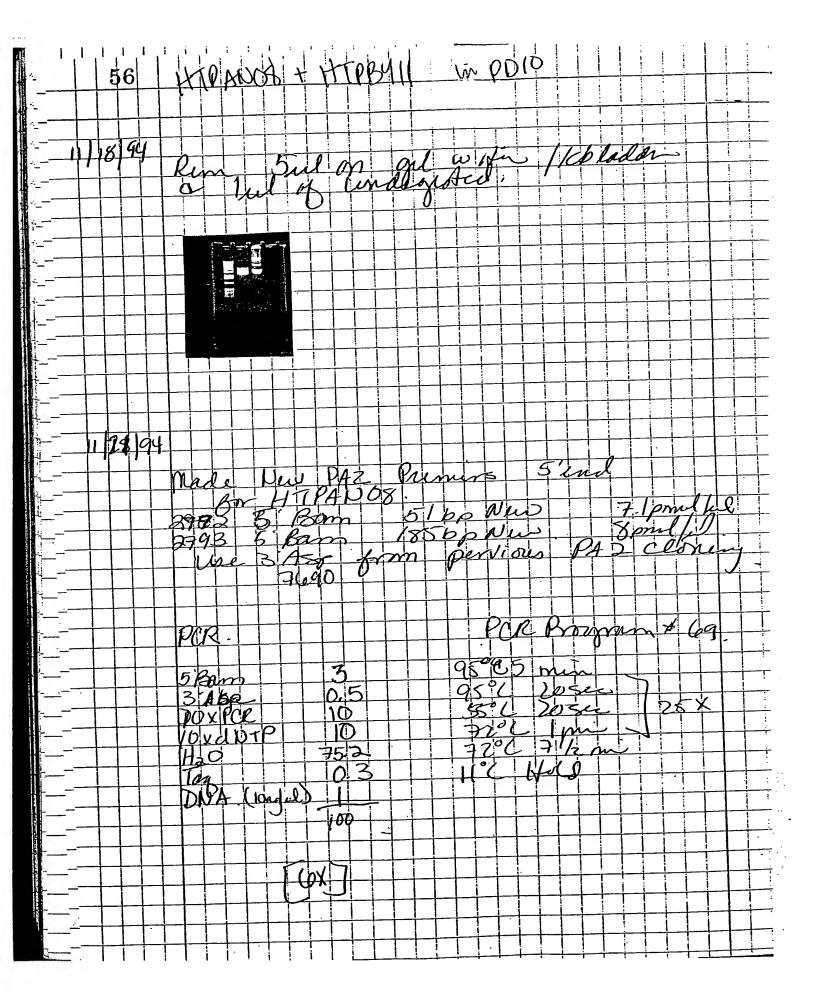




PANOS & HTPBYIL 12 RAPO. HTRB41 

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	Pur ento Too jel CB+ Any + Kan
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	50 ml 187/0n
	1) No # 20
	= Water # 20
	Sucutate 370
_	
-	
-	
11/18/94	
- 117	Clean Modeful Mide
	Spin alture 45/ 15min
	Pour of Sugernature
	Pesuspesial in Ital Fi
ari   1   1   1	

HTPADOS aHTPBYH in PDIO 55 Add 7 ml P2 Musi gently Add Amel I تيع SX Maga (C. Frolunia) Lopropan d In === 1.6727 6.5708 w di



HTPANOS + HTPBY! 5 ul on gel Deget fragment Bam /ADD DUA HZO\_ IOX#Z 50 pcl

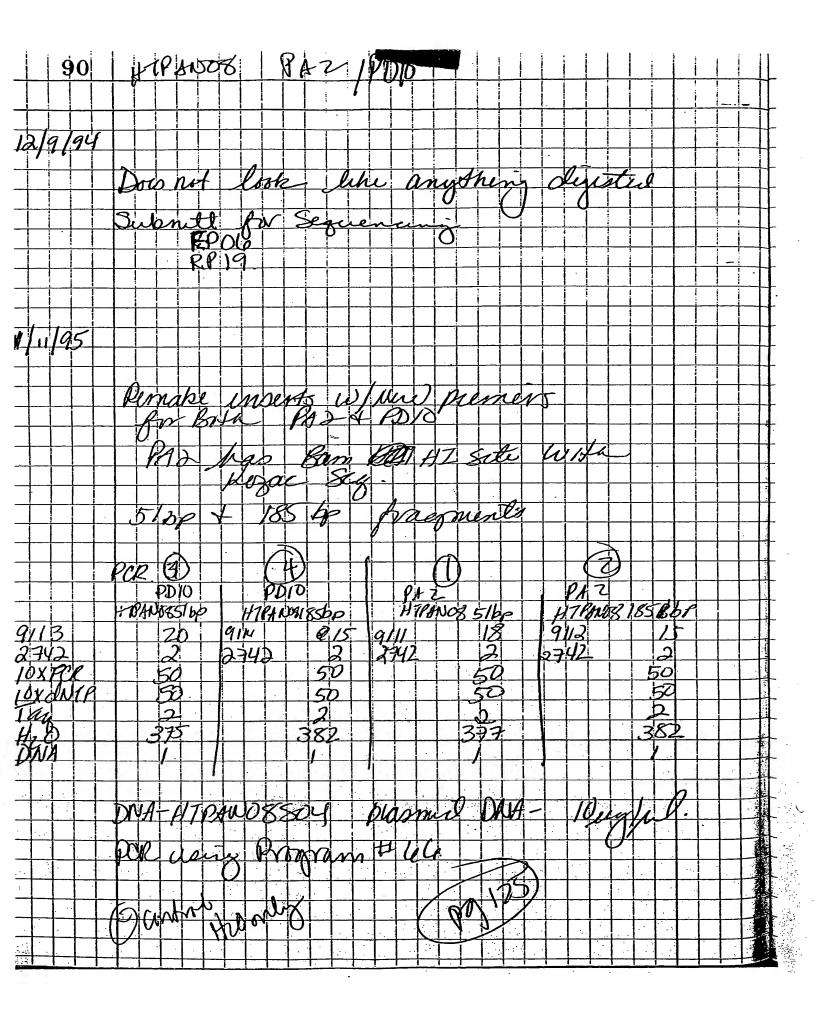
58	MANOS IPAZ lig
1//30/94	solotion 0,80/2 1 MPGel 9
	Of the Clean.
	tup ligations
	5 bp Bam (A=p) 10    bp Bam (A=p) 10  12. Bam (A=p) 2 2 2  14. Classe 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	120 10 10 10 10 10 10 10 10 10 10 10 10 10
	neutati (CC O/V.
- la 194	Transform into M15 cells
	haw M/5 Chem Competent Cells TO COUL BO legation and vooul
	Incibate on ice Im heat 45°C 455ec
	Incitate 37°C /m. Olate 100 il on 100 mm Platos 300 il on 50 mm Platos
	MIS Cello Contaminal ? (Pylet)

PDIO B/HTE / HIANOS Frey / Dwase P frag. Lene Clean &

HPECC91, HEROJUZ 4) HPECCALSIY MEZOTYZSIY HPRCCAISIY TB+ Amp HTPANOS SOU 516p (45bp in PAZ Take plats on the

HPANOSOU 5/bp/1856p in PAZ 12/7/92 PCR 66 1% 185 bp HIPANOS SOY HTPANOGSOLL 3160 H102008504 185 pp prok @

HTPHNOS They will



POECEO No Bam Victor 97
12/19/94
Digist POE60 = 0.54 mplel.
DNA 4 5 1. 10144 5 40 Hrd 40
Nco
Uncubate 37°C 0/N
12/20/94
Run 2 il on gel with 1kb ladde  looks good  The Stat DX SB LUP gel  By //2m  Cut out fragment  John Clean  Plen Clean  Max will Jul Dass mile  Max will 7 m Dass mile  Max will 7 m Dass mile  Ald 700 ll on my one  Max will one my one  Span 10 second

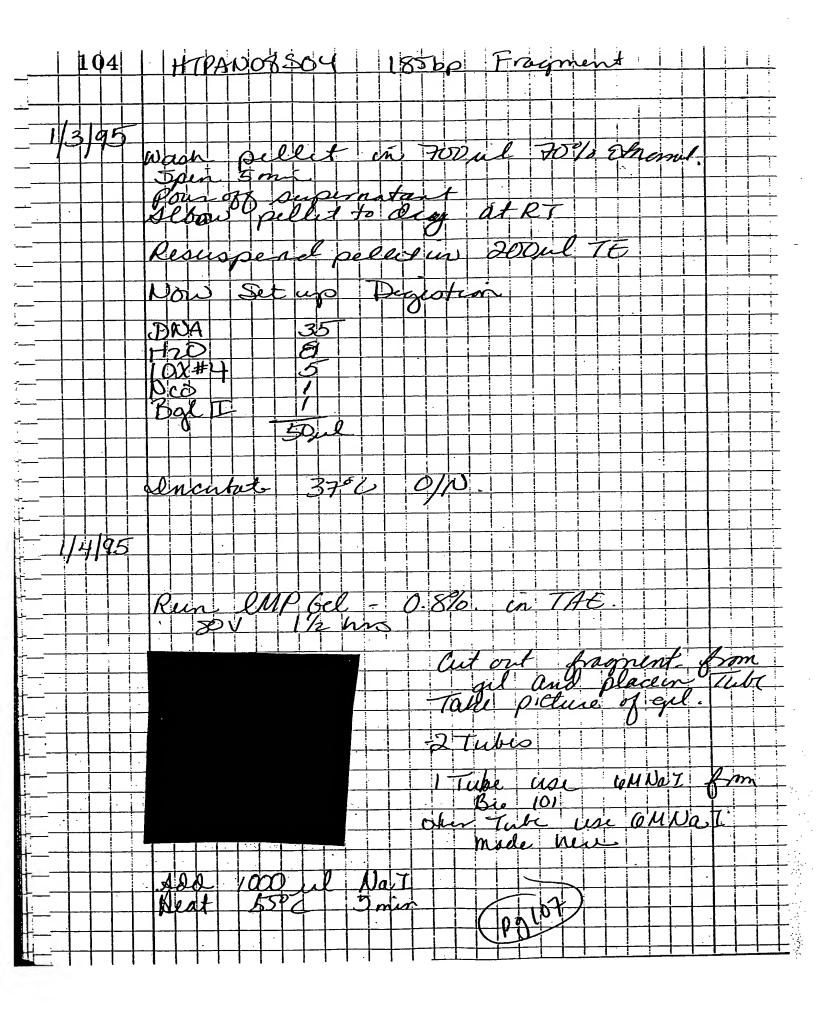
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	HTPANOR HTPBYII in POECO	99
· : 1		
		12/20/5
	POR	· : !
	HTPAU08504 3 Nco 1 13 Bal 11	
	HTPBY11515 5' BSOHT   Bam HI	<u> </u>
	for ligation cuto POE 600	: : :
	HTPAN HTI	
	5'NCO I 20 5'BSPHI (516P)	20
	3 BMT 4 3 Dam	4
		30
		30 36
· · ·	11/20	<i>Z</i>
<u> </u>	DNA (coughed) _ [ DNA (roughed) _	,
-i ·	DNA (coughed) 300	
		<i>C</i>
	Set up RKn W/O DNA (30, I sol total	7
		<del></del>
	PCR. BIOX 30 ul PXns.	:
	from 66 fun 5 ul ong	jet with
	()	
	95°C 5m	
5	95°C 20%C 30X	, <del>-</del>
39ul	72°C 1/2 m	
0.5	110 ( h 1):	
0.5	40	
50,1		
	4 4	
	Ald coul Un PEGINALL to pot - my	- Well
	Dan 10 mi	: : :
	Remore Supernatant	<del></del>
	Wash 1x 70% Cothand (would)	
	Spin Son	
	Remain Augunituit.	
	Allow pellet to dry gt K ( 10m.	
	Recuspend in Mul To	
•		

100 ATRADOS HTRBHH in POEGO	
77 20/94	
Pen 50 pl on 0.8% LUR gel	
80 V 1/2 WS	
Cut out fragments	
Dene clean	
Resespend - Total	Soul IE
Run Jul on gel wit	h
	_
looks good	
Set up degestions	
	<u>_</u>
HZO 13 Por HIPANOS - NCO B	
10x#4 5 HTPBY/1 BSOHT	Ben _
Enrittle 1	
30ml	
Incutate 370 ( O/N	
	<del></del>
12/22/94	<u> </u>
	<del></del>
Ring on D. 500 J. M. P. Orl With	-
80 V 1/2 Wp	+
	<del>; ;</del> ·

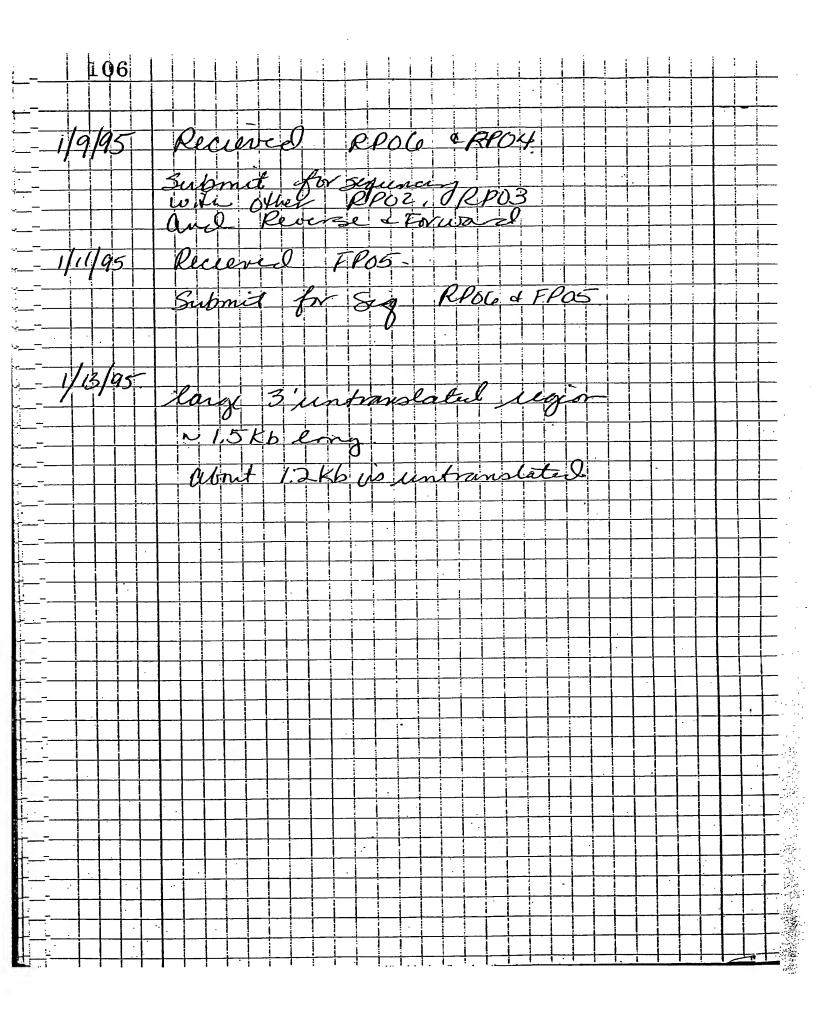
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	HTPBNOS HTPBYII IN PQECO	101
	76812	1 12/22/9
	Men Cla	an-III
	Plouspend	and Elect
	in 40	ul Total
-0-	Ren Inla	are with
ATE.	I KO JA	a.a.
		Bet up ligation
		IB1
		3 9 5 4
	HTPALIOSSO45'NGG(3'B)II 4 - 4	9 9
	10× 2 1 2 1	2 2 2 2 1131 13 16 1
<u> </u>		- 4 -
	POE 60 Noolean - 1 POE 60 Noolean - 1	*   +
	Suculate 4°C	
		1/3/95
	Transform MIS repticelle	
	- Chemically Competent Class	
	Than cells on ice	Wind a l
	To take and long Paties	Ingli Halim
	Hube add 10 ml og 1/20 0	neg

102 HERÓNOS [HTPSYLI IN POELO on cee 400 l 2 B+ Amp + Kan plates 200 ligation Right PQT 60 10ny 100 d MIS Cells aby 3001 300,cl Spead Evenly with Incutati 390 1 95 Oll plats onew-Even m15 Cells alone and ligation Contaminated Said he would test Cell Medi Redoring ligation worth H WANOSSOY [85

9		
	HTPANOSSO4 185 bp Fragment	103
	<del> </del>	
		18/23/94
	PCR HTPANOSSOY 185 bp fragment	
	for Patied Nio (By II	
	<del>- </del>	
	DUA	
	THO 237	
	OX PCP 30 USA HO	
	LONDITY 30 00 P	7
	5 NCOI 1854 20 3 Byll 3001	
4	3' R. 1 1 4	
. 4	30gul.	
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	POR Program # lole.	
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	1954	
	15°L 2054 3'DY	. : .
	14770L /m	
	700 75m	<u> </u>
	Hold.	
<u>:</u>	Home 4°C	
	J. 31011C-4-12	
<u></u>		
	Ren	
	PCR (10 in with) / Ch laster	1/3/94
	Ald sand Volume 13% 127	PEST
	1. Len Da Ce	
	Ny 16- 11-700	
	3020 10 mg	
	Pour int Surper notest.	
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		100



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111	MANDERSON 196 Bo Fragme	105
	HTLAD31 PER Protein	
		1/3/95
	Depot HTCAD3/ = 0.25 ugfel	
	1) Xho IEco RT	
	2 Sac   Kpn	
	(A)	
DNA	lo DNA G.	
10X t	2 3 10x#4 3	
L EU	RT 0.21 zac 0.21	
	Bul- Bonl	
	alnoutate 37°C 0/0	
	Dubnett for sequencing -	:
- 1		14195
	Run Dul m 1% TAtout	
	1- Yho   Eco R.I ~ 4.716b.	
		200h
rom !	2- kpn /80c ~800 bp + 5 (a	
whit -	Insert looks v He Kb.	
<del>m</del>	picke Primers -	
	RPD10 4-FPD5	
		TILI
		7 12 9 14 14 14 14 14 14 14 14 14 14 14 14 14



HTPALQOZ SOLL 1856 Fragren Dupernatan pre as much of Supernertant as gel with

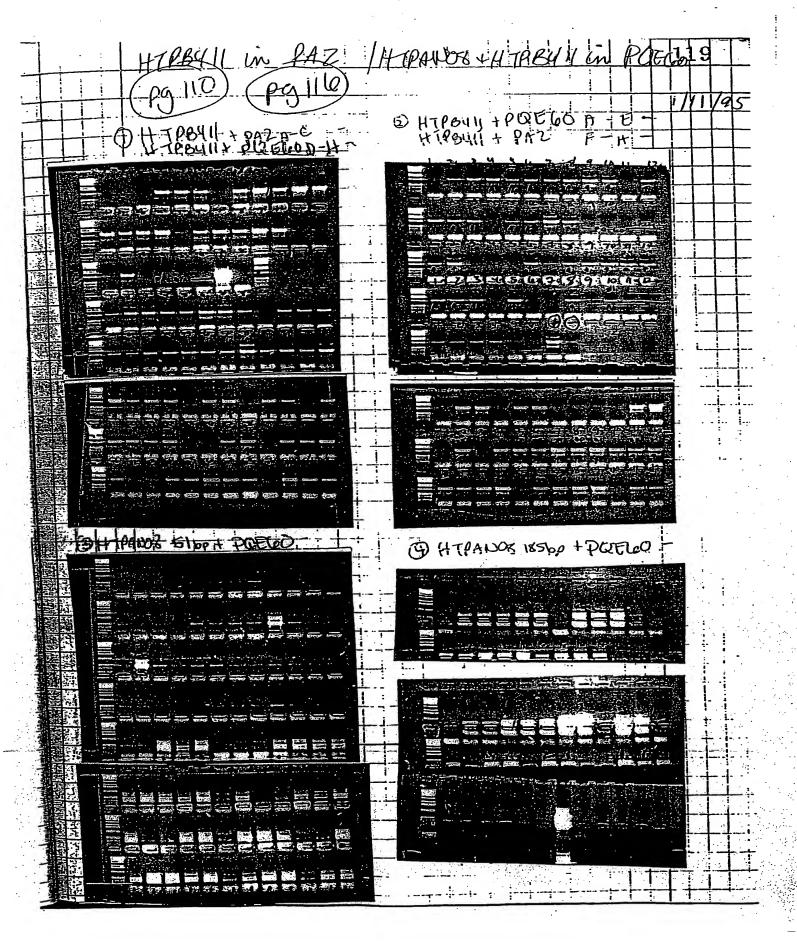
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	(1) (2) (3) (4) (5) (4) (4) (9)	-
	24 51 bo 5' Aco   3' Bal II B	
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PREGO	Dec   Bam # 9 9 9 11 11 11 15 15 17	+
TH DN	1 / / / / / / / / / / / / / / / / / / /	+
		工
		-
	Make Cockatal 9x	+
	10x B, 11 2 18	1
	10x Buffer 2 18 H2O Ber 9 81 T4 DVAlia 1 9	+
		+
		工
	Store lighting at 4°C till	+
-	Store ligations at 4°C till fiss Mis cells are found	+
-		工
1/9/9	75	+
	Service Service Local Landa Miller	
-	State and to Transform Contains	
	Il planned is covered - por can	+
-	Gransform ento m/s cells	+
-		
-	Than II- Blue Chemically Conspetent	1
	Cells on ice	
-	10 loud of sugation and	
	Once la 4 on ce I had as C) cont	200
	up 100 al cello only	
	New Shorn 42°C 4584 10116	
	- 1	المنسب

Mari Prep HTPANOSSOY/HUESTISS Inoculate 200 ml TB+Amp from frozen 3to cho of HTPADOSSOY HMEAA88A w aeration mernight mayi Prep 15 min Dupernate P.1 Ruase ce cold 20 min with ip Min 30ml 0.7 Tones & Volumes

112 May Prep HIPANOSSOY, HMEADSS	
3-1595	_
30in 8K 15min	
Pour of Duper ratant	
Dry o/N at Room Temos -	
will parafilm whole covering	
1/6/95	
Reserspend pellet in 400 ul TE	· -
Rem Jul on gel with 1 Kb ladder	<u></u>
Plat 1:100 in H20 Red OD200/280	
	<u>:</u>
250.6 nm 280.0 nm	÷
1D 260.6 nm 280.6 nm 280.6 nm 260.6 nm 260.6 nm 1, 1900.6 nm 260.6 nm 260.6 nm	<u>-</u>
2 HUMAN 50 0.002 0.0319 0.0231 1.9374 0.5161 0.0315 1.7380 0.5754 1.03 my n.l.	<del></del> -
looks like HMEAASS a all chromosoral	<del>.</del> .
	-
1/9/95	亡
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Bolling Pup DNA to get	‡
- Clarie	1 .
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HEROARD ABROWER COOK HTRANOS HTRAININ P 4 108 2 min mice 400/2 1/2 hrs. onto states 150mm Yansform 12/23 rom Quentate 3700 LBTAMP 15 Cells on m LB+Kar LB+ Any Kan 1/10/95 Plates look arod No Contamer M15 Cells kil lon Vanil & lates So contaminal ontan cell - M1) (P) B+ Amp 0 onlo will HTPBYII HTPAN 08 Datue Vector

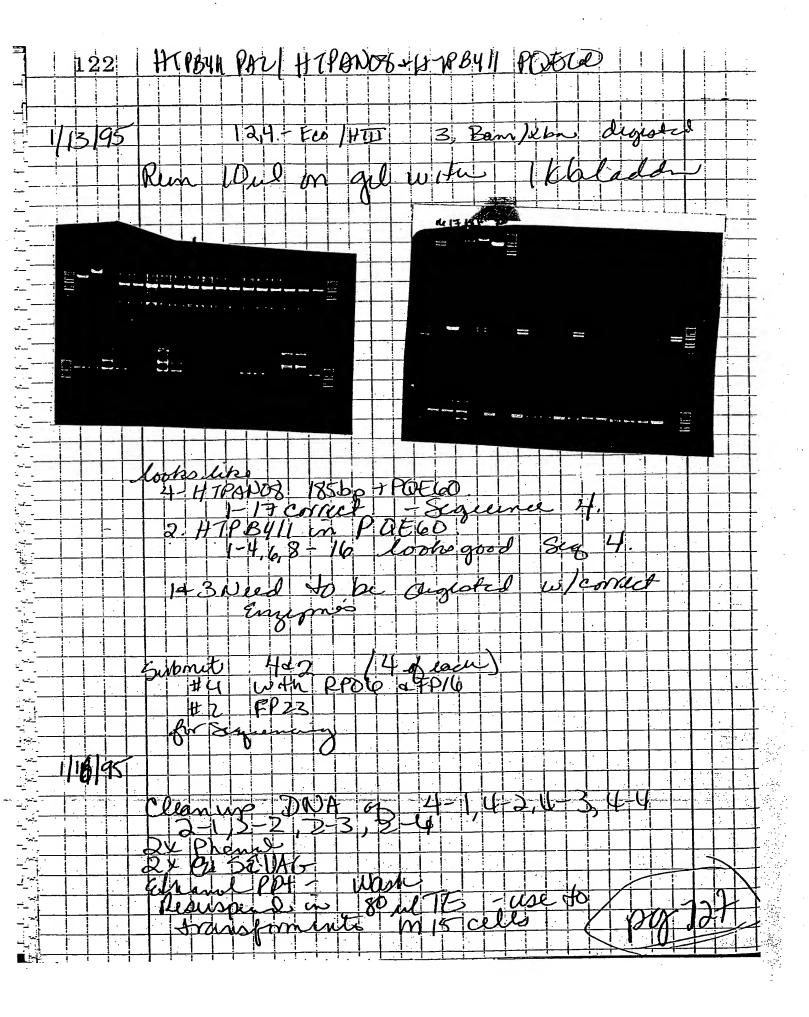
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116 HTPANOS/HTPBY// WY	PULLED	<u> </u>	<u></u>	
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Mugutati 37	Linte			
OD well as	the 2		Premer	2
UO IMAGE IMP				
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HTPBUIL POTGO.		108 51 b 196E	FRY	0.2
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- 2556 0.2	'IOXANTP	3.2	MXdNP	32
10x011P 32 10x Pre 32	ICX POR	32	101 PCP	3.2
	H20	17	H20	_28.8_ _0.2
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- Comb	21 161	Amp alone		
- PCR Prox (G	<del>! ! !        </del>	totup R	eno	
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- 195° Zosec		a Jaira	lin :	
- 50°C 205a	30x 1			1 1 :
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C. Harrison Control	145 W			
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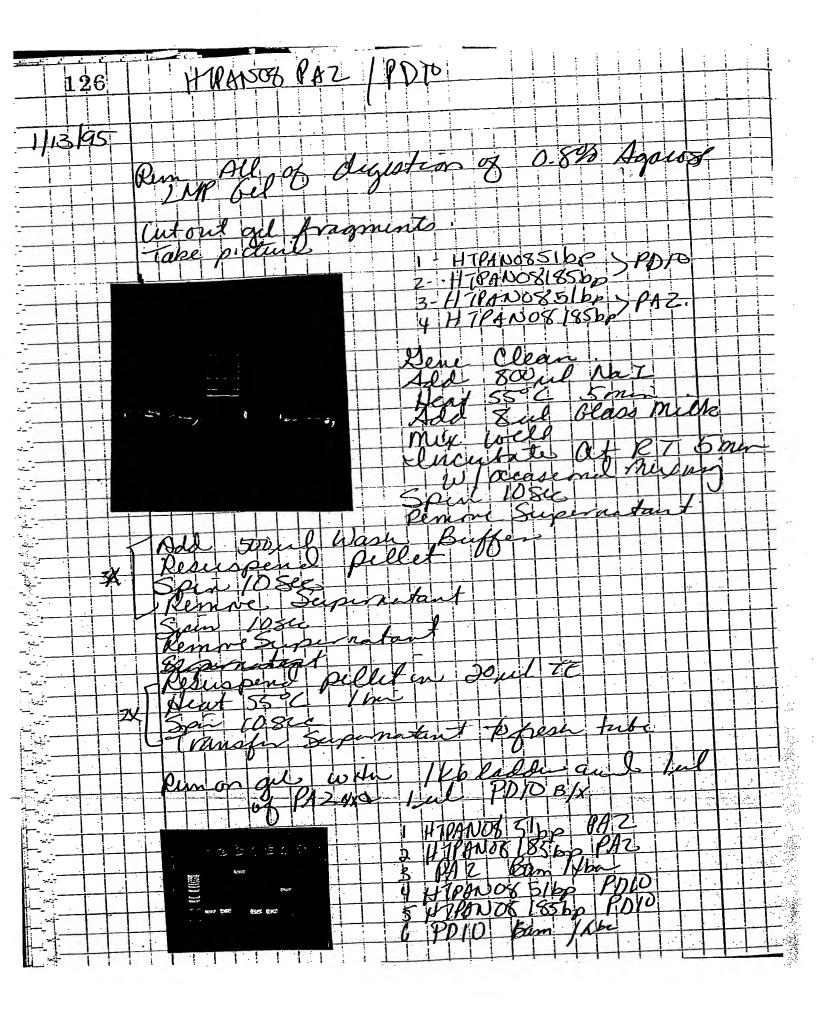
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	HIPBYII PAZ HTPBY 11+HTPANOS POECO 121
	Spin 5 min Renere Ethanse Allow pellets by Bry at PT for 30mil Resuspine pellets in 100 ul 46
	Run Dul of Minispreps on 1º/0 TAE
	mx upin lateling - Des really #3  #Des really #4  #5 is really #2
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Set up dignotions.  100 For PAGEO. Por PAZ
2000	ELORI HIT 55X Bam/Vbc. ZOX  DNA 4 — DNA 4 — 10X  NOX 2 IID 10X 2 40  H20 13.4 748 H20 13.4 272  ELORI 0.2 II Bam 0.2 4
	Incubate 37°C 0/N Digist HTPAN08504 HTPB411515 PAZ & POEGO.

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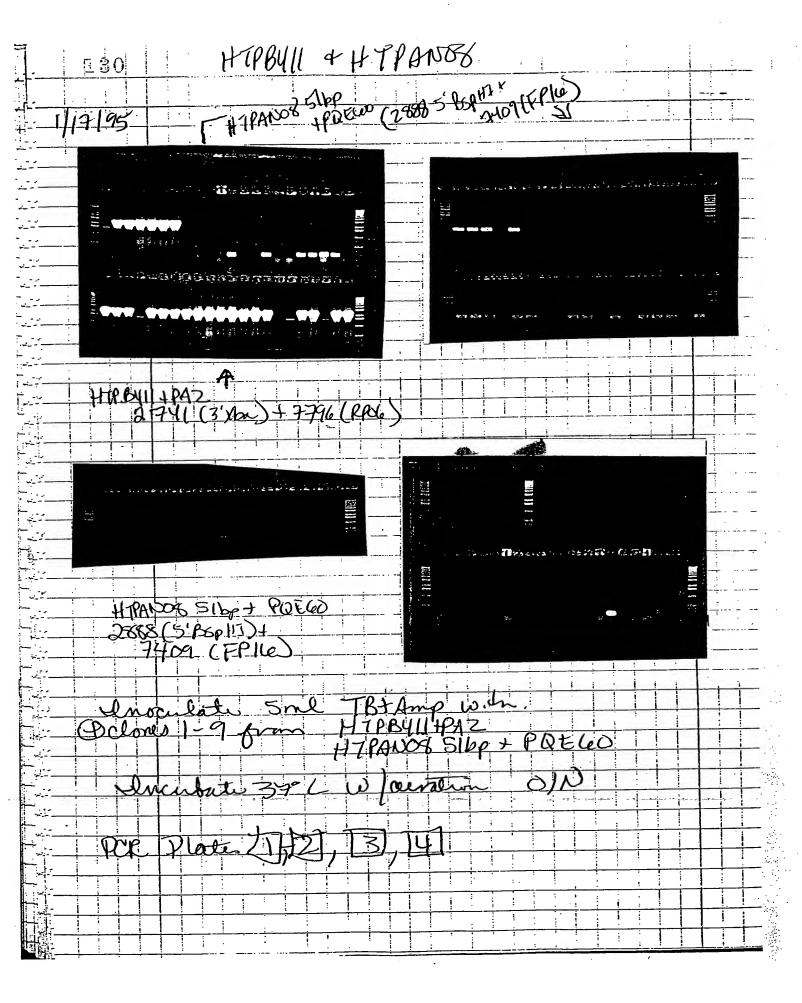
	# (PANOS PAZ /FDIO     125
	(pre10)
	95° ( 5mm
	1 acc 70sx
	55°C 7050, 30V
	726 75pm
	14.C. Hold
	Ru 5.0 m and with 11 blille 1/12/95
	Ren 5, la gel with 12 blidge 19713
	3- HTPANOS 51 bp for PBZ
#-	24 - HTPGNOS 155 bp for PAIZ
4/200	2-HIPANOS SI by Gr PDIO
2	Decentate Ald cares Volume
	Becepitate Add egis Volume
	pen 10 min
	Wash Pollet 1000 P 70 /2 Ethank
	Rimon Signaturati
	Set up dagotion
	DNA (PCR Fragment) ZO
	H10 8 60 15
	1 kg m
	X Ma
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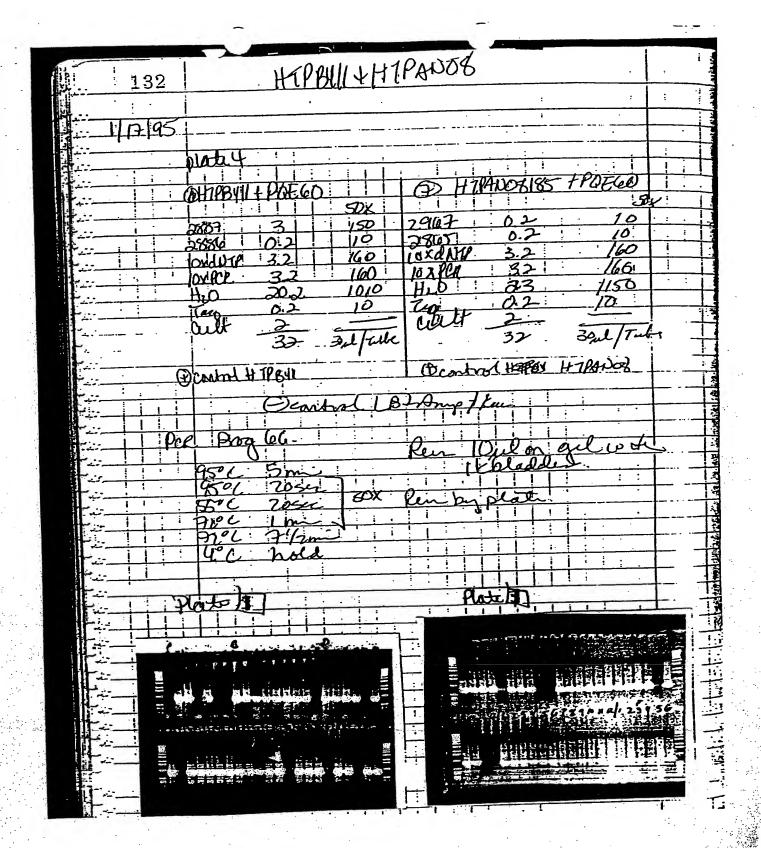
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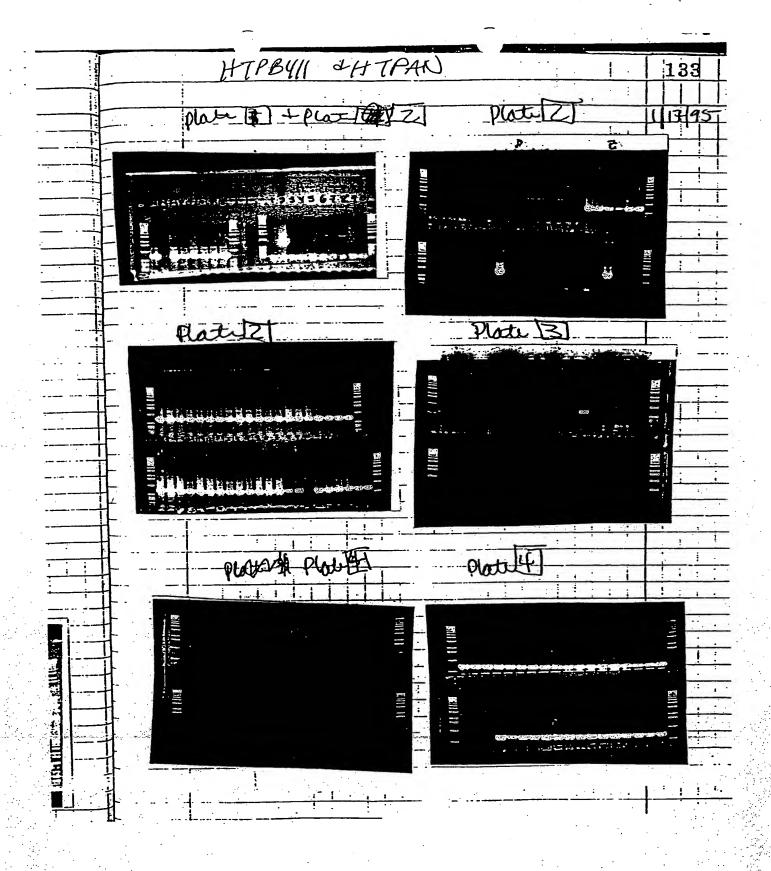
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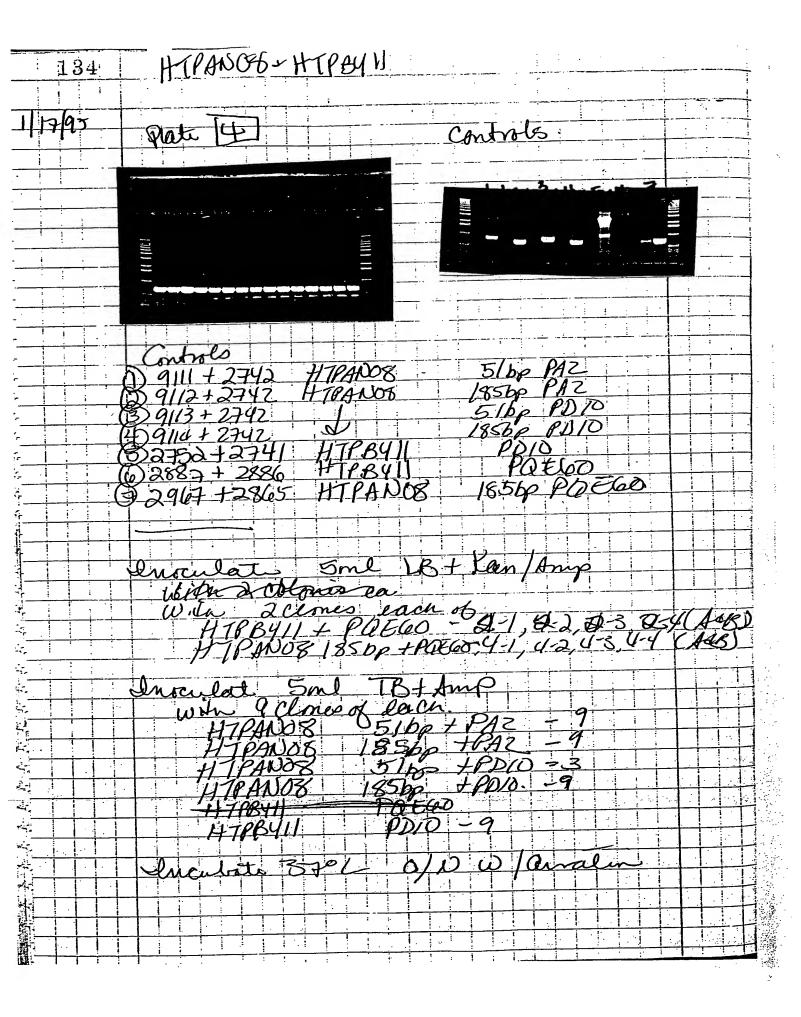
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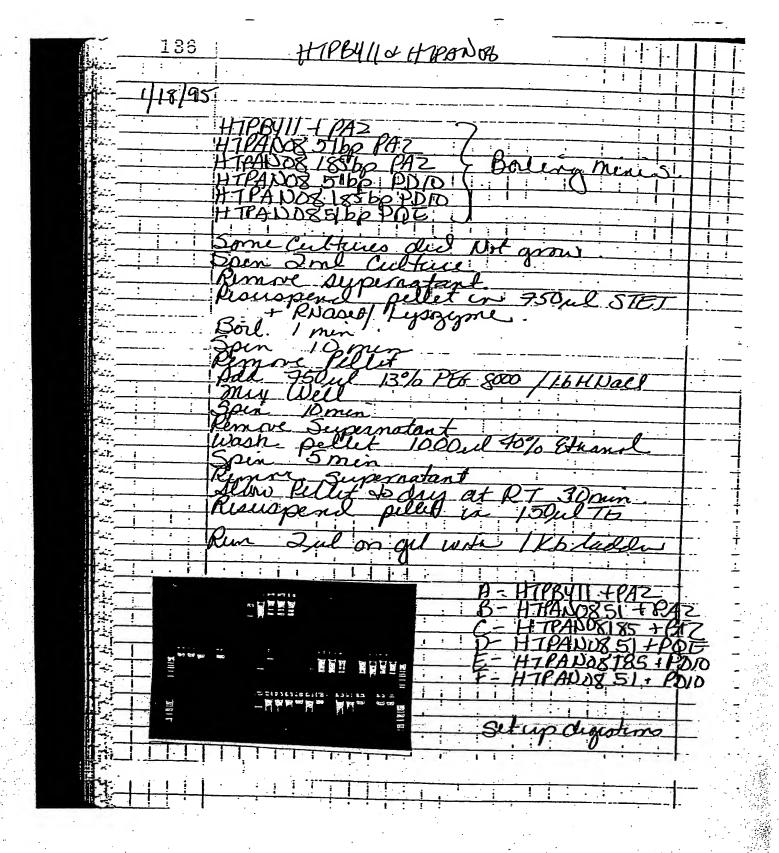
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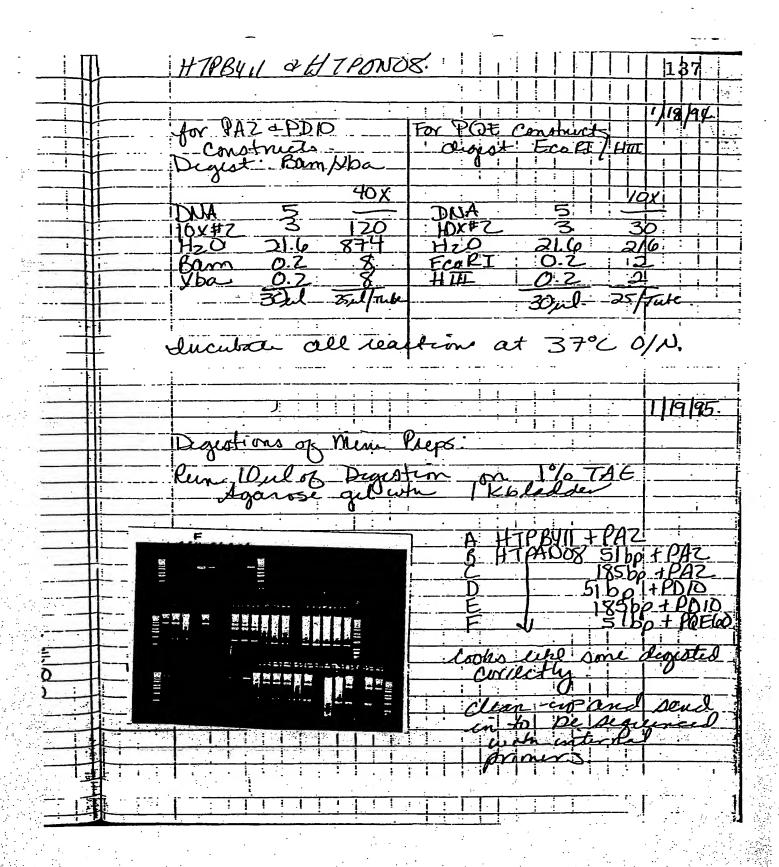






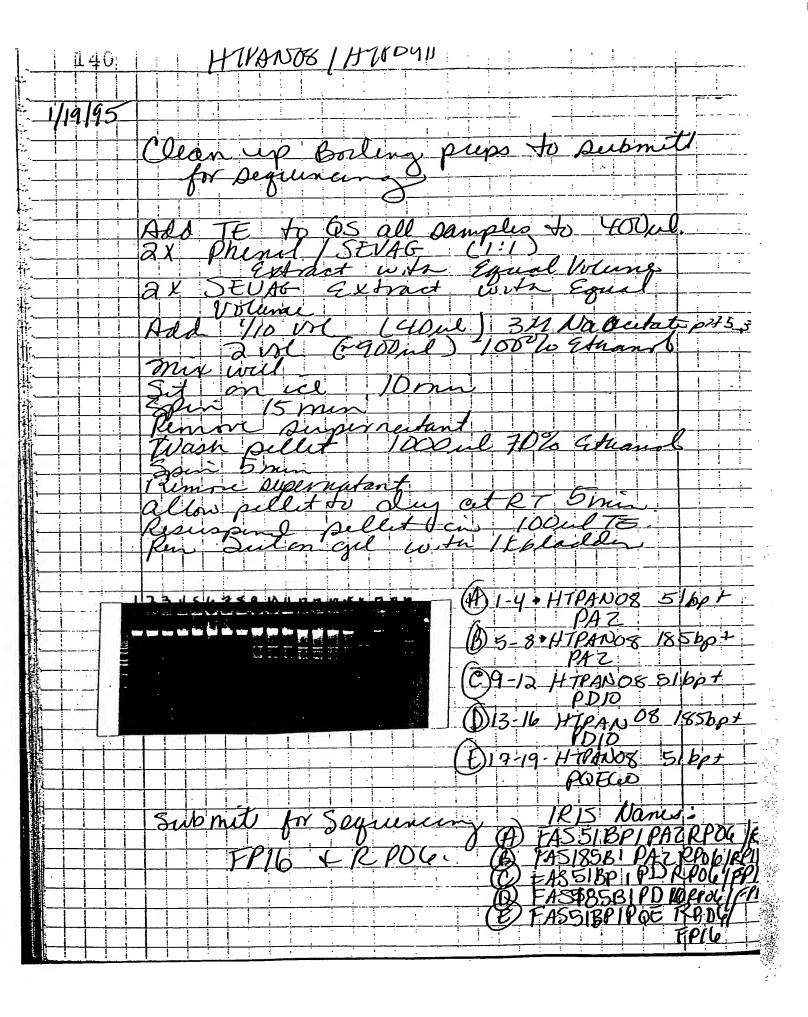
	HTBYIL CHTPANOS! !!!!!!	1 135
		1118 95
	HTPBHIT + PUE 60.	
	HTPANOS 1856P+ POELOO.	
	to 5ml 18+ Amp/Kan add	300 l
	of ON Cultures	1 1 1
	Suchar 370 Wolland	- Till
	100 600 H TPTG TO ZMM	p 110, Q.
	Sucutate 37°C 4hrs	
	Spin 750 ul of culture - Cus	17PANO84
	HTPBYII.	(TEBOOS 4-
	Personal pellet in 100 ul Hzl Ald 100 pl 2 X dissociation Buy	) !
	Ald 100 pl 2 X dissociation Buy	fer
	10125H Tris pH (19	
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	Buffer 10% B- Mercapto Ethansl.	
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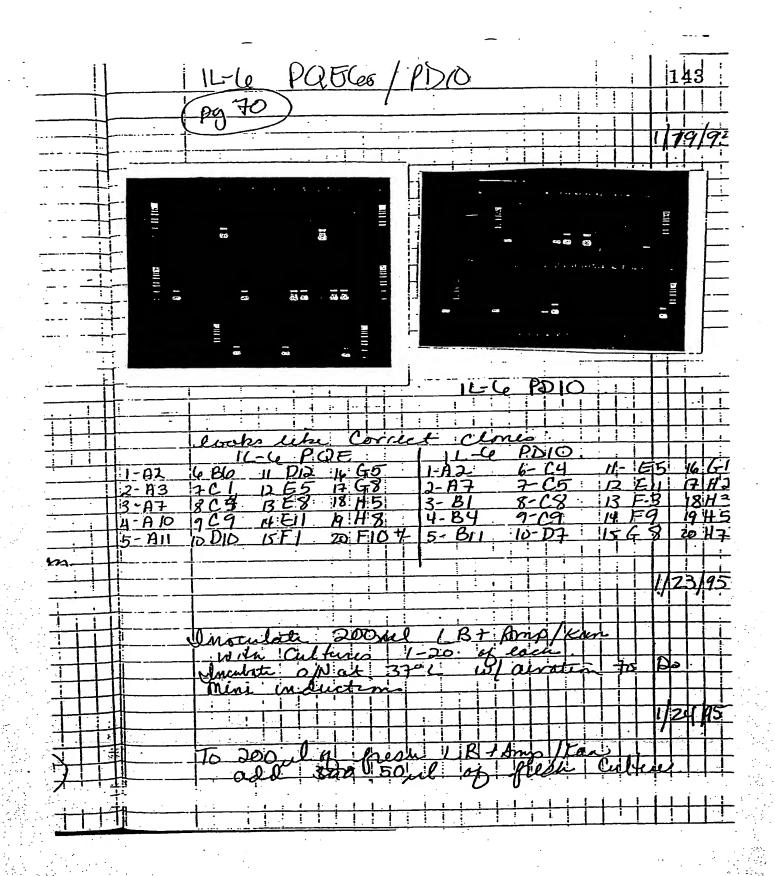
<u> </u>	HIPANOB / HIPBYII
1/19/95	
*	Delute HTPB411+Plate PAZ 1,2,3,4
	H18ANO8 5/60 +PAZ 1,2,3,4
	Delicte HTPBYII+BBBCO PAZ 1,2,3,4 HTPANOS 5160 +PAZ 1,2,3,4 HTPANOS 18560+PAZ 1,3,4,5,
<u>                                     </u>	1:200 - use loub to transform into
	DA5a.
+	Than DH5x Chemically Competent cells
	mace
	To 100ml of thousand cells Add 10ml
	of bilated DNA
	alnoutate on ice 1hr
	Heat 42°C 458C
	place on ice
	Uncubite 3706 1hr.
	plate 300 ul onto 150 mm / Botting
	Incubate 37°C O/V
	Maria Official Control of the contro
	PR 4100411 + 0A2
	HTPANOS 51bp7.PAZ
	178ANO8 98560 +PAZ
	Judh a PAZ Specific T3 promoter
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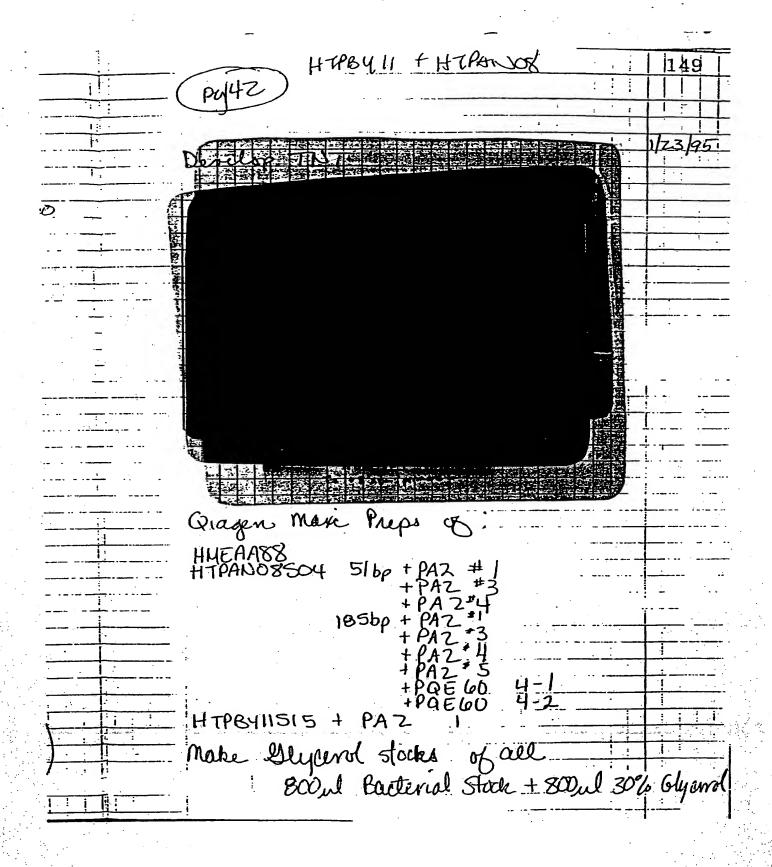
HOPANOS I HTPBY 11	139
	104
Run Program #66.	1/19/95
95°C 5mi 95°C 705cc 30x	
F2°C 7'/2min	
Ren 5 who PCR on 12	o TAG gel with
	HTPBYII Did Dol -
The first of the property of the complete of t	PCR - Deceto
	Clones.
	HIPANOS look
	good
HTPANOR- precipitate was	~ equal Vol
min 13% FEG / WOM Nacl	
Spin 10mi	
Pour off Supernatant	
Wash pellet Inl	70% Elrand
Plan of Supernatant	
Resuspendin 100 1	PT 15min.
Vina Dill on 1072 a	l with 1 Kb Ca Dan
	m + Compalant
	band looks good
	TNT 1/28.
그렇게 당한 사람 맞으는 이 시간이 되는 그는 것이 그 것 같다.	



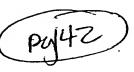
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	25 ul
1)	Incubate 30°C 2 hours
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	Heat 90°C 5 min
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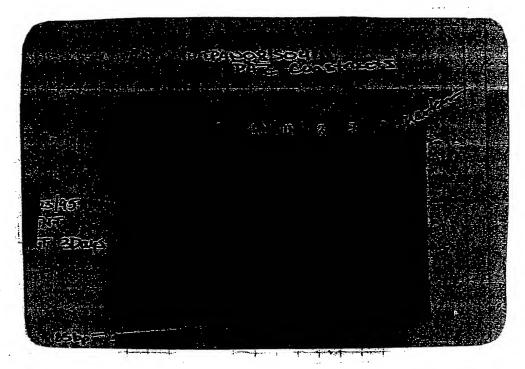


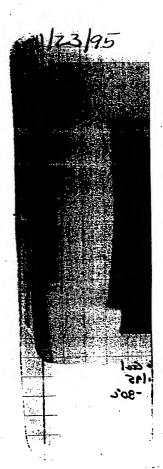


### HTPBY 11 + HTPANNOS



#### Develop TNT.





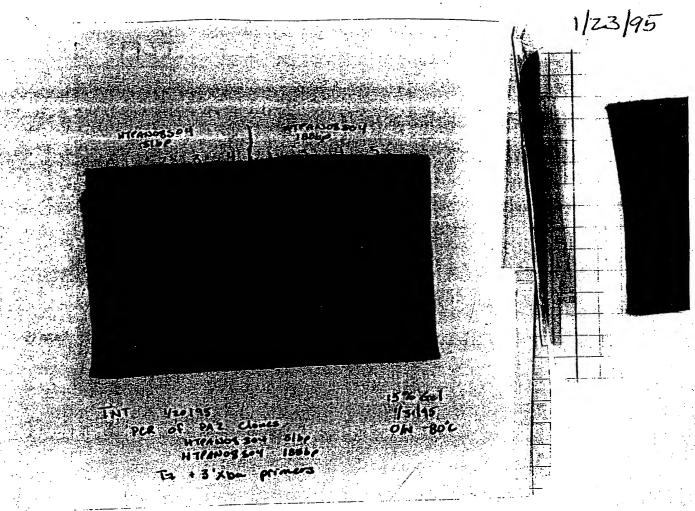
Oragen Mari Preps &:

HTPBYIISIS + PAZ 1

Make Glycerol stocks of all 800 ul Bacterial Stock + 800 ul 30% Glycerol

## HTPBY 11 + HTPANNOS

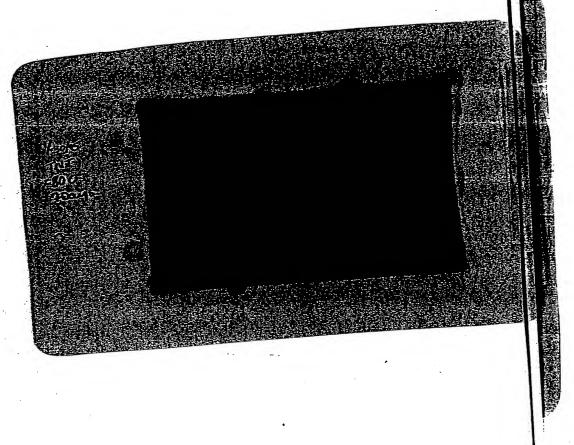




HTPBY11515 + PAZ 1

P442

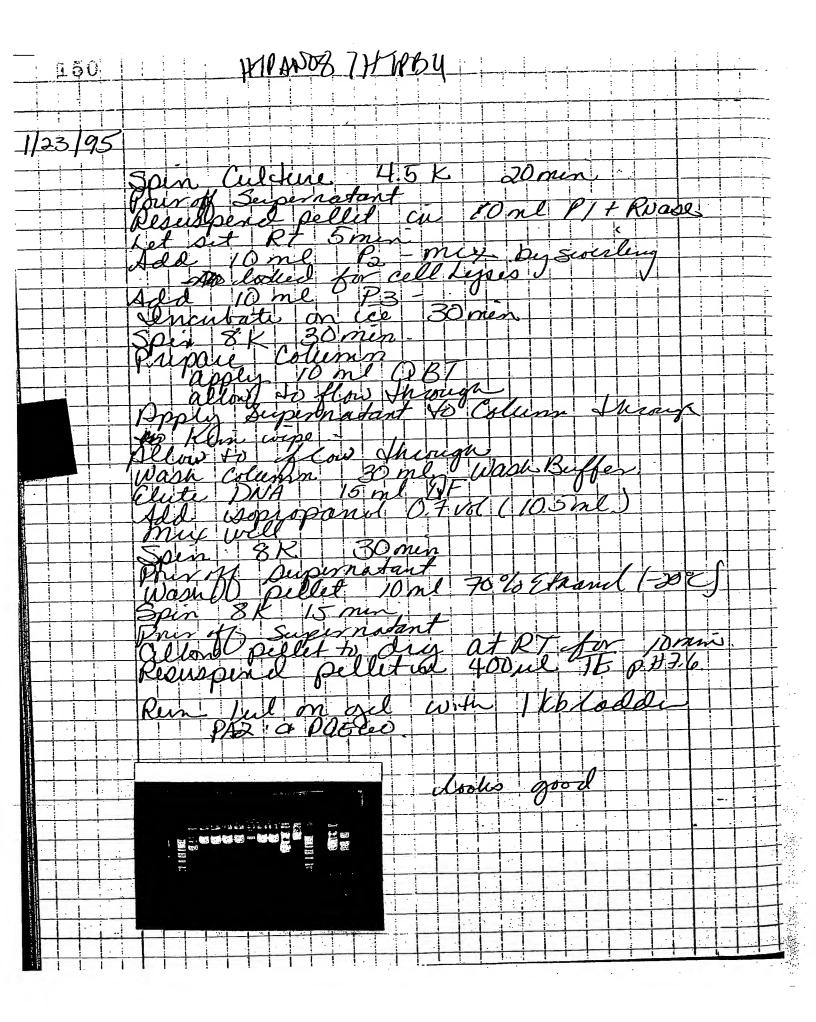
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HTPBYIISIS + PAZ 1

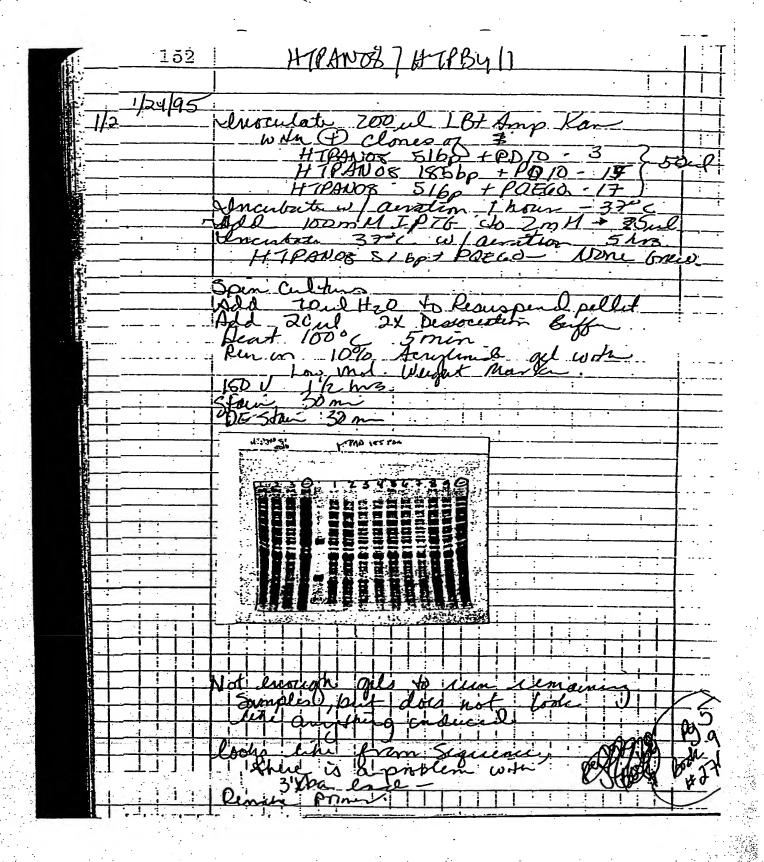
Make Glycerol stocks of all

800 M Bacterial Stock + 800 M 30% Glyand



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